What is claimed is:

- An inductor comprising:

 a coil form having a conical portion with a tip;

 an integrated contact disposed on the tip of the coil form; and an inductor coil wound around the coil form and electrically coupled to the integrated contact.
 - 2. The inductor of claim 1 wherein the coil form comprises polyiron.
 - 3. The inductor of claim 1 wherein the integrated contact comprises a plated tip portion of the coil form.
- 4. The inductor of claim 3 wherein the plated tip portion of the coil form

 comprises a first gold layer, a nickel layer disposed on the first gold layer, and a second gold layer disposed on the nickel layer.
 - 5. The inductor of claim 4 wherein the coil form comprises polyiron.
- 20 6. The inductor of claim 3 further comprising a groove in the plated portion of the coil form.
 - 7. The inductor of claim 3 wherein an end of the inductor coil is soldered to the plated tip portion of the coil form.
 - 8. The inductor of claim 7 wherein the inductor coil is wound not more than one turn around the plated portion of the coil form.
- 9. The inductor of claim 1 wherein the inductor coil has a narrow end with an inside diameter, an outside diameter of the integrated contact being essentially equal to the inside diameter of the narrow end of the inductor coil.
 - 10. The inductor of claim 1 wherein the integrated contact has a radius not greater than 250 microns.

25

10

	_			
1	1	Δn	inductor	comprising
1.	1.		muuctor	COMPRISING

a polyiron coil form having a conical portion and a plated tip portion; and an inductor coil wound around the conical portion of the coil form wherein an end of the inductor coil is soldered to the plated tip portion.

5

25

- 12. The inductor of claim 11 wherein the plated tip portion of the coil form comprises a gold barrier layer proximate to the polyiron coil form, a nickel layer disposed on the gold barrier layer, and a gold layer disposed on the nickel layer.
- 10 13. The inductor of claim 11 further comprising a groove in the plated tip portion of the coil form, the end of the inductor coil being soldered in the groove of the plated tip portion.
- 14. The inductor of claim 11 wherein the inductor coil is wound not more than one turn around the plated portion of the coil form.
 - 15. The inductor of claim 11 wherein the plated tip portion has a radius not greater than 250 microns.
- 20 16. An inductor comprising:

a polyiron coil form having a conical portion and a plated tip portion with a groove; and

an inductor coil wound around the conical portion of the coil form, and end of the inductor coil being soldered to in the groove of the plated tip portion, wherein the inductor coil is wound not more than one turn around the plated portion of the coil form.

17. The inductor of claim 16 wherein the plated tip portion has a radius not greater than 250 microns.